Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Office of Secretary Of Defense

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

0400: Research, Development, Test & Evaluation, Defense-Wide

PE 0603618D8Z: Joint Electronic Advanced Technology

BA 3: Advanced Technology Development (ATD)

COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	25.576	8.386	7.287	-	7.287	7.179	7.846	8.535	8.821	Continuing	Continuing
P619: Joint Electronic Advanced Technology	25.576	8.386	7.287	-	7.287	7.179	7.846	8.535	8.821	Continuing	Continuing

A. Mission Description and Budget Item Justification

In Overseas Contingency Operations (OCO), the United States must be ready to meet the widespread and growing threat of asymmetric weapons such as Man Portable Air Defense Systems (ManPADS), unguided hostile fire and portable small weapons improvised from commercially available electronic sensors, computer modules, navigation and control components coupled with various disruptive payloads. Such devices provide terrorists and foreign military units the novel means to rapidly construct a wide range of weapons capable of disruptive actions against civilian and military forces alike. The U.S. must be ready to counter such weapons on short notice.

The asymmetric nature of such devices is already well understood by terrorists. ManPADS and mortars have been used to attack both air and ground forces, and pose a threat in any region due to their portability. Digital processors, analog-to-digital converters and digital optical sensors give terrorists the means to deploy unexpected threats on short notice. Conventional kinetic defenses against these devices can be impractical in urban settings. Because the speed of appearance of these disruptive devices can be short, such threats are asymmetric in comparison with the long development cycles that are typical of U.S. military defensive systems. Together these asymmetries highlight the need to rapidly evolve alternative Electronic Warfare, Information Operations and Counter Terrorism capabilities suitable for neutralizing such threats in a timescale that is commensurate with their appearance. This program element investigates novel means to detect and neutralize asymmetric threats, as well as special mission and other methods to employ asymmetric principles against our adversaries.

This program element seeks to identify rapidly deployable solutions (outside of service programs of record) that can effectively mitigate asymmetric threats by integrating advanced commercial or military off-the-shelf technology in innovative ways that augment and/or reduce risk when inserted into service programs of record.

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Office of Secretary Of Defense

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY

0400: Research, Development, Test & Evaluation, Defense-Wide

BA 3: Advanced Technology Development (ATD)

R-1 ITEM NOMENCLATURE

PE 0603618D8Z: Joint Electronic Advanced Technology

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	10.838	8.386	8.479	-	8.479
Current President's Budget	25.576	8.386	7.287	-	7.287
Total Adjustments	14.738	-	-1.192	-	-1.192
 Congressional General Reductions 		-			
 Congressional Directed Reductions 		-			
 Congressional Rescissions 	-	-			
 Congressional Adds 		-			
 Congressional Directed Transfers 		-			
 Reprogrammings 	14.970	-			
SBIR/STTR Transfer	-0.129	-			
 Other Program Adjustments 	-0.103	-	-	-	-
 Defense Efficiency - Reports, Studies, 	-	-	-0.713	-	-0.713
Boards, and Commissions					
Defense Efficiency - Contractor Staff	-	-	-0.468	-	-0.468
Support					
Economic Assumptions	-	-	-0.011	-	-0.011

Change Summary Explanation

Defense Efficiency – Report, Studies, Boards and Commissions. As part of the Department of Defense reform agenda, reflects a reduction in the number and cost of reports, studies, DoD Boards and DoD Commissions below the aggregate level reported in the previous budget submission.

Defense Efficiency – Contractor Staff Support. As part of the Department of Defense reform agenda, reduces funds below the aggregate level reported in the previous budget submission for contracts that augment staff functions.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Office of Secretary Of Defense									DATE: Feb	ruary 2011	
0400: Research, Development, Test & Evaluation, Defense-Wide					R-1 ITEM NOMENCLATURE PE 0603618D8Z: Joint Electronic Advanced Technology				Electronic A	dvanced Ted	chnology
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P619: Joint Electronic Advanced Technology	25.576	8.386	7.287	-	7.287	7.179	7.846	8.535	8.821	Continuing	Continuing

A. Mission Description and Budget Item Justification

The widespread and growing availability of sophisticated, commercially available electronic sensors, computer modules, navigation and control components coupled with widely proliferated Man Portable Air Defense Systems (ManPADS), portable explosives, mortars, rockets provide terrorists and foreign military units with the novel means to rapidly construct a wide range of weapons capable of disruptive actions against military forces. In Overseas Contingency Operations (OCO), the United States must be ready to counter such weapons on short notice. The asymmetric nature of such devices is already well understood by terrorists. ManPADS, man portable weapons and mortars have been used to attack both air and ground forces, and pose a threat to any region due to their portability. Digital processors, analog-to-digital converters and digital optical sensors give terrorists the means to deploy unexpected threats on short notice. Because conventional kinetic defenses against these devices can be impractical in urban settings and because the speed of appearance of such devices can be short, such threats are disruptive and asymmetric in comparison with the typically long development cycles associated with U.S. military defensive systems. These asymmetries highlight the need to rapidly evolve alternative Electronic Warfare, Information Operations and Counter Terrorism capabilities suitable for neutralizing such threats. This program element will investigate novel means to detect and neutralize these asymmetric threats, as well as special mission and other methods to employ asymmetric principles against our adversaries.

This program element seeks to identify rapidly deployable solutions (outside of service programs of record) that can effectively mitigate asymmetric threats by integrating advanced commercial or military off-the-shelf technology in innovative ways that augment and/or reduce risk when inserted into service programs of record. Laboratory and field testing will be used to evaluate the feasibility and military utility of resultant low cost, near term capabilities. FY 2012 efforts will investigate, integrate, test and demonstrate elements of the following technologies:

1. Integrated Situational Awareness and Countermeasures

DoD helicopters currently use a federated architecture of sensors and countermeasures to protect themselves against guided and unguided hostile threats while simultaneously avoiding collisions with the ground and other obstacles. These sensors typically provide the pilot with a separate display of radar, radar warning, missile warning or off-board communications to guide the pilot in selecting automatic or manual countermeasures against radar, laser, or radio frequency guided threats. These un-fused sensors create a serial information stream which can induce an inadequate response to the threat. These federated systems consume weight, space, and power which are at a premium in small platforms. The initial goal of this project is to fuse multiple functions such as missile detection and countermeasures, hostile fire detection, navigation in visually degraded environments, and active search using optical detection into a one or two aperture device with a single integrated display to produce improved situational awareness. Subsequent efforts of this joint service government/contractor team will assess integration of multi-platform sensor fusion using Radio Frequency (RF) and laser data-links to create cross-platform shared situation awareness among a section or division of helicopters or Unmanned Aerial Vehicles (UAVs) which is more complete than a single platform warning/tracking system. Such efforts will be proven in a series of Rotary Wing Aircraft Survivability Experiments (RASE), bringing sensors and shooters together in a collaborative learning environment using live fire with a variety of weapons and environments.

2. Low Cost/Near Term Counter Asymmetric Systems

Exhibit R-2A, RDT&E Project Justification: PB 2012 Office of Secreta		DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 0603618D8Z: Joint Electronic Advanced	P619: Joint	Electronic Advanced Technology
BA 3: Advanced Technology Development (ATD)	Technology		

Investigate low cost, near term technologies solutions to allow aircraft to fly in medium to high ManPADS threat airspace in support of OCO. Emphasis is on threats, aircraft and system approaches that are not covered by existing programs of record including but not limited to: innovative threat warning, advanced pyrophoric decoys, miniature high reliability lasers, magnetically steered high reliability pointer-trackers, higher powered and higher duty cycle lasers, preemptive countermeasures systems.

Three specific tasks leading to a rapid technology transition will be completed by FY 2011:

Distributed Ground-based Threat Detection System (DGTDS) is a passive electro-optic technology that can detect an airborne ManPADS threat and declare it to aircraft in the vicinity so that active or passive countermeasures can be employed to defeat the incoming missile. DGTDS provides the technology for a ground based regional aircraft missile warning system that can protect a large airspace using passive optical sensors. This warning system has an extremely high probability of detection and a very low false alarm rate. This technology will augment current missile warning systems in urban environments. The technology also can protect Civil Reserve Aircraft Fleet (CRAF) when they are retrofitted with Infrared Countermeasures (IRCM). CENTCOM, SOCOM, and TRANSCOM have all expressed interest.

Aircraft ManPADS Protection System (AMPS) was created to provide ground based missile launch detection notification to participating aircraft via ground to air data link and release of pyrotechnic or pyrophoric countermeasure to defeat missiles. Development of AMPS was a contracted effort. It will supplement current installed Ultra Violet (UV) missile launch detection systems to improve aircraft survivability against both long range and minimum range ManPADS engagements. SOCOM and TRANSCOM have all expressed interest.

Special Materials Aero Urban Decoy (SMAUD) is an advanced multi-part IRCM decoy which is non-pyrotechnic, safe, covert, and effective. The contractor is the advanced special materials developer and decoy designer. Decoy will provide effective IRCM using small (1x1 inch) decoys with minimal expenditure of payload (two decoys). SOCOM and Army have funded part of the work and expressed interest.

3. Disruptive Technology Defeat and Utilization

Emerging and disruptive technologies analysis; rapid prototyping of technologies required to adapt counter-terrorism techniques to threats in OCO. Primary payoff is an assessment of current system capabilities and limitations against the threat and capture of baseline system performance against the threat set for developing technologies. Joint Electronic Advanced Technology (JEAT) will demonstrate rapid prototyping of technologies required to combat adaptive threats in the OCO. Emphasis will be on demonstrating an end-to-end kill chain and techniques which minimize or eliminate collateral damage. Starting in FY 2011 and FY 2012, the efforts of this mostly-government team will include novel techniques to detect and locate the signatures of terrorist activities using electronic means. Trident Spectre provides a venue for various members of Special Forces, Conventional Forces and Intelligence Community to collaborate on and evaluate technologies and techniques related to "Tactical Intelligence" in a technical, operational, and safe environment. Trident Spectre provides an opportunity for capability developers (scientists, engineers, designers) to interact directly with tactical operators, collectors and analysts; and a process that correctly and efficiently reviews potential tactical Intelligence technologies and techniques that will enhance the operational capability of the DoD activities in OCO. Primary payoff is improved connectivity and more efficient collection and dissemination of Tactical Intelligence. Customers include CENTCOM, SOCOM, DDR&E, DoD Conventional/Special Forces, and members of the Intelligence Community. Products include an after action report and a transition plan moving management activities to SOCOM.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Office of Secr	retary Of Defense		DATE: Fe	bruary 2011	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)	R-1 ITEM NOMENCLATURE PE 0603618D8Z: Joint Electronic Advanced Technology	PROJECT Ped P619: Joint Electronic Advanced Tech			
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
Title: Integrated Situation Awareness and Countermeasures			5.685	1.623	2.640
Description: DoD helicopters currently use a federated architecture against guided and unguided hostile threats while simultaneously average sensors typically provide the pilot with a separate display of radar, rauguide the pilot in selecting automatic or manual countermeasures aguin-fused sensors create a serial information stream which can induce systems consume weight, space, and power which are at a premium fuse multiple functions such as missile detection and countermeasure environments, and active search using optical detection into a one or produce improved situational awareness. Subsequent efforts of this integration of multi-platform sensor fusion using RF and laser data-ling among a section or division of helicopters or UAV's which is more consuch efforts will be proven in a series of RASE, bringing sensors and using live fire with a variety of weapons and environments.	oiding collisions with the ground and other obstacles dar warning, missile warning or off-board communications radar, laser, or radio frequency guided threats e an inadequate response to the threat. These feder in small platforms. The initial goal of this project is es, hostile fire detection, navigation in visually degrate two aperture device with a single integrated displayioint service government/contractor team will assess that to create cross-platform shared situation awaren mplete than a single platform warning/tracking systems.	s. These cations to cations to cations to cated to caded y to cate cated to cate cated cat			
This project integrated missile warning, hostile fire warning, radar, raintegrated architecture adaptable to single or multiple platforms. By with either on-board decoys or on-/off-board directed-energy devices track, and defeat shoulder-fired ManPADS and unguided weapons knaccomplishments included creation of a prototype IRCM beam direct actuated mirror, and will significantly improve reliability of IRCM system of integrated hostile fire detection and geolocation was proven through feasibility of Hostile Fire Indication (HFI) detection, geolocation and of High quality dynamic, live fire data was obtained by participants and	combining high-speed, high-resolution tracking med is, it demonstrated the end-to-end capability to detect nown to be in the hands of terrorists in OCO. FY 20 for that contains only one moving part which is a magern while supporting an expandable architecture. If gh experimentation. Deliverables included a report countermeasures. Planned and executed the first R	chanisms ct, 010 agnetically easibility on ASE.			
FY 2011 Plans: FY 2011 efforts include integration of a high speed optical detector (programmer of the programmer of the	ity for hostile fire detection, geo-location and non-le ed visual environments will be started. Follow-on to	thal esting			
FY 2012 Plans:					

Exhibit R-2A, RDT&E Project Justification: PB 2012 Office of Secre	etary Of Defense		DATE: Fel	oruary 2011	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)	R-1 ITEM NOMENCLATURE PE 0603618D8Z: Joint Electronic Advanced Technology	PROJECT P619: Joint Electronic Advanced Tec.			chnology
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
Complete efforts to demonstrate the feasibility of a hostile fire detection high speed detectors and magnetically actuated optics. Demonstrate to provide situational awareness in degraded visual environments. Be capability based upon magnetically actuated optics and study/begin to IRCM, Hostile Fire Detection/Countermeasures and obstacle avoidance.	capability to use magnetically actuated mirror tech egin efforts to integrate free space laser communic demonstrate feasibility of combining design element	inology ations			
Title: Low Cost/Near Term Counter Asymmetric Systems			16.513	2.177	1.144
Description: Investigate low cost, near term technologies solutions to airspace in support of OCO. Emphasis is on threats, aircraft and syst of record including but not limited to: innovative threat warning, advar magnetically steered high reliability pointer-trackers, higher powered a systems.	em approaches that are not covered by existing proced pyrophoric decoys, miniature high reliability la	ograms sers,			
Three specific tasks leading to a rapid technology transition will be co	mpleted by FY 2011:				
DGTDS is a passive electro-optic technology that can detect an airbor so that active or passive countermeasures can be employed to defeat for a ground based regional aircraft missile warning system that can particularly warning system has an extremely high probability of detection and a protected by multiple patents, was developed by the government. This in urban environments. The technology also can protect CRAF when TRANSCOM have all expressed interest.	t the incoming missile. DGTDS provides the technorotect a large airspace using passive optical sensovery low false alarm rate. The intellectual property, is technology will augment current missile warning	ology ors. This which is systems			
AMPS was created to provide ground based missile launch detection and release of pyrotechnic or pyrophoric countermeasure to defeat m will supplement current installed UV missile launch detection systems minimum range ManPADS engagements. SOCOM and TRANSCOM	issiles. Development of AMPS was a contracted e to improve aircraft survivability against both long r	ffort. It			
SMAUD is an advanced multi-part IRCM decoy which is non-pyrotech advanced special materials developer and decoy designer. Decoy wi minimal expenditure of payload (two decoys). SOCOM and Army ha	Il provide effective IRCM using small (1x1 inch) de	coys with			
FY 2010 Accomplishments:					

Exhibit R-2A, RDT&E Project Justification: PB 2012 Office of Secre	etary Of Defense		DATE: Fe	bruary 2011	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE PE 0603618D8Z: Joint Electronic Advanced	PROJEC			. , ,
0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)	nt Electronic	Advanced Te	ecnnology		
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012		
DGTDS, AMPS and SMAUD are designed to work together. Work in I to be implemented with tactically deployable COTS technology. The for system to be configured into a tactically deployable package that will s	ollowing hardware and software deliverables enable				
DGTDS algorithms were developed and tested for enhanced filtering at to increase the probability of detection, to decrease the false alarm rat OS to create a deployable system architecture. The calibration system and shooter location determination. All obsolete COTS PC hardware allow for implementation of anti-tamper protocols and implementation conjunction with AMPS, DGTDS completed end to end, live-fire, system					
AMPS completed testing of ground based prototype system, exceedir of ground based control software to compatible operating system for ir of airborne hardware, completed manufacture of initial copies of airbor inclusion in final delivery of project documentation; delivered airborne activities; and completed and published ground based closeout briefin	nal design n for				
SMAUD continued development of a special materials decoy to provide tested the ASC-1224 and ASC-1292 decoys in Dec 2009. In this gover handling and reporting was managed by JEAT. The resulting test data simulation labs for analysis and further modeling, which resulted in the effectiveness results was provided to Army, Navy and Air Force IRCM was tested in May 2010. The test data was distributed to Navy and Air final decoy design was developed. A report of very promising effective IRCM program managers.					
Mini Scanning Mirror (MSM) technology advancement was accomplish design and laboratory evaluation of IRCM scan mirror design to achiev at Tonopah and White Sands; conducted a feasibility demonstration of show feasibility and possible utility for hostile fire detection; and continuincement 2. This project transitions to JEAT Integrated Situation Award	ve TRL-5, completed a live fire and field evaluation f the MSM and Position Sensing Detector Array (P nued efforts to enable technology for integration into	of MSM SD-A) to			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Office of Secre	DATE: Fe	bruary 2011					
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD) R-1 ITEM NOMENCLATURE PE 0603618D8Z: Joint Electronic Advanced Technology PROJECT P619: Joint Electronic Advanced Technology							
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012				
Defensive Systems Data Recorder (DSDR) was developed for Special Aircraft Survivability Equipment (ASE) systems' message traffic on the and be transparent to aircrew operations. Developed software tools for contributions to mission planning, intelligence analysis, and real-time states.	eir respective data line, have no effect on ASE perfortimely evaluation of DSDR downloads. Evaluate	ormance,					
FY 2011 Plans: DGTDS will focus on finalizing all system documents and hardware drawing to allow for a smooth transition of the technology to the customer. When completed, this technology will allow any large urban airfield to provide an exceptionally high quality of missile warning to any aircraft in the area. It can be coupled with either an air or ground based countermeasure system. System documentation will be completed to enable seamless technology transfer to limited production/industry.							
AMPS will complete aircraft hardware prototype creation, qualify hardware for prototype installation in aircraft, integrate into AH-1Z System Integration Lab at Naval Air Warfare Center, Weapons Division, China Lake, CA for system performance testing in Dec 2010, perform end-to-end live fire missile firing test at China Lake to demonstrate system performance in Dec 2010, close out project with final delivery of all system design documentation, hardware, and software code in Feb 2011. System design/ hardware will be available for near term integration/implementation for contingency operations.							
SMAUD will conduct effectiveness flight testing for the final decoy des components for test planning, test aircraft and vans, and range costs i of the potential effectiveness of this decoy concept for the CV-22. Fur laboratories for analysis and transition. Estimate completion in second	ation						
Begin efforts to investigate novel means of detecting and locating signatures of terrorist activity, differentiating between terrorist and indigenous activities and providing timely, actionable intelligence enabling disruption of terrorist kill chains.							
FY 2012 Plans: Continue efforts to investigate novel means of detecting and locating sand indigenous activities and providing timely, actionable intelligence		en terrorist					
Based upon the OSD Advanced Threat study, completed in FY 2010, solutions to emerging threats. JEAT will begin efforts to evaluate tech fourth and fifth generation IR missiles. This will include signature meaning	iniques to rapidly develop countermeasures to adva						

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APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)	R-1 ITEM NOMENCLATURE PE 0603618D8Z: Joint Electronic Advanced Technology	PROJECT P619: Joint Electronic Advanced Technol				
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012	
evaluation as well as laboratory trials. Create and populate data into service use.	the countermeasures database available for broad	joint				
Title: Disruptive Technology Defeat and Utilization			3.378	4.586	3.503	
Description: Emerging and disruptive technologies analysis; rapid posterinques to threats in OCO. Primary payoff is an assessment of curand capture of baseline system performance against the threat set for prototyping of technologies required to combat adaptive threats in the kill chain and techniques which minimize or eliminate collateral dama government team will include novel techniques to detect and locate the Trident Spectre provides a venue for various members of Special For collaborate on and evaluate technologies and techniques related to "environment. Trident Spectre provides an opportunity for capability directly with tactical operators, collectors and analysts; and a process Intelligence technologies and techniques that will enhance the operatis improved connectivity and more efficient collection and disseminating SOCOM, DDR&E, DoD Conventional/Special Forces, and members action report and a transition plan moving management activities from	rrent system capabilities and limitations against the or developing technologies. JEAT will demonstrate a OCO. Emphasis will be on demonstrating an endage. In FY 2011 and FY 2012, the efforts of this most ne signatures of terrorist activities using electronic naces, Conventional Forces and Intelligence Communicational Intelligence" in a technical, operational, and levelopers (scientists, engineers, designers) to interest that correctly and efficiently reviews potential tactional capability of the DoD activities in OCO. Primation of Tactical Intelligence. Customers include CEN of the Intelligence Community. Products include an	threat rapid -to-end stly- means. nity to d safe ract cal ary payoff NTCOM,				
FY 2010 Accomplishments: This project provided expertise to Joint Integrated Air and Missile Def Northern Command (USNORTHCOM), for a variety of U.S. defense stimeframe and to demonstrate an end-to-end kill chain of UAVs via the and published Black Dart VI Final Report; transitioned Black Dart speexpertise to JIAMDO for the planning and execution of Black Dart 20. Provided JIAMDO with detailed statistical data on UAV sorties and machined documentation for future planning requirements; and Initiate JEAT was a full partner in Trident Spectre management activities and activities and responsibilities. FY 2011 Plans: FY 2011 efforts will be developed in coordination with the defense restance (DIA) elements seeking ways to avoid technological surprise. Furthe	systems demonstrated and evaluated in the May 20 he Black Dart Capability Evaluation. Black Dart componsorship from OSD, AT&L to JIAMDO; Provided by 10; successfully executed Black Dart 2010, May 20 hission profiles flown; Provided JIAMDO detailed Less d Black Dart 2011 Maritime venue planning and cool developed a transition plan for Trident Spectre FY search community and Defense Intelligence Agency	onto pipleted ridge 10; ssons ordination. 2011				

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BA 3: Advanced Technology Development (ATD)	Technology				
	·				

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
intelligence that allows asymmetric disruption of terrorist kill chains. JEAT will be working with the U.S. SOCOM, NSOC, and other members of the Special Forces, Conventional Forces, and Intelligence Community in planning, executing, and reporting on Trident Spectre. This activity will provide a venue for various members of the DoD and Intelligence Community to collaborate on and evaluate technologies and techniques in a technical, operational, and safe environment, as well a technical out-brief to DDR&E leadership and report on the experiment's results. The payoff of this activity will be a process that correctly and efficiently reviews potential technologies and techniques that will enhance the operational capability of the war-fighter in OCO. This project will provide expertise to JIAMDO, jointly with USNORTHCOM, for a variety of U.S. defense systems to be demonstrated and evaluated in the Aug 2011 timeframe and to demonstrate an end-to-end kill chain of UAVs in the maritime environment.			
FY 2012 Plans: Continue efforts to investigate novel means of detecting and locating signatures of terrorist activity, differentiating between terrorist and indigenous activities and providing timely, actionable intelligence enabling disruption of terrorist kill chains. JEAT will be working with the U.S. SOCOM, NSOC, and other members of the Special Operations and Intelligence Community in planning, executing, and reporting on Trident Spectre. This activity will provide a venue for various members of the DoD and Intelligence Community to collaborate on and evaluate technologies and techniques in a technical, operational, and safe environment, as well a technical out-brief to DDR&E leadership and report on the experiment's results. The payoff of this activity will be a process that correctly and efficiently reviews potential technologies and techniques that will enhance the operational capability of the warfighter in OCO.			
Accomplishments/Planned Programs Subtotals	25.576	8.386	7.287

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A